



M O U N T I N G I N S T R U C T I O N S

LASHING & DOCKING KIT FOR VELA BLUES 100-200-300



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1. REQUIREMENTS RE. THE ELECTRIC WHEELCHAIR

4-POINT SEATBELTS

VELA Blues 100 – 200 – 300 have been tested and meet the requirements of DS/ISO 7176-19 and their use is thus permitted as a passenger seat during transport in a motor vehicle.

The electric wheelchair/user must face in the direction of travel and be harnessed with a 3-point seatbelt. The wheelchair must be lashed in place with 4-point belts.

The wheelchair must be clearly marked with a hook-label at all four anchor points.

For the VELA Blues 100 – 200 – 300 to be used as a passenger seat of a motor vehicle, the chair must be configured as shown below:

- SW eat and back system (width 40 – 45 – 50 cm)
- WB head restraint
- Folding or fixed armrest
- Electric or manual chair back
- Electrically operated leg support or E-leg support + swivel footrest

In addition to the above, the chair must be accompanied by a lashing kit. Two different types of lashing kit are available; which one to use depends on the type of arm rest fitted to the chair.

These must be ordered from VELA.

CHAIR WITH FOLDING ARMREST

Item number: 926376 Lashing kit for folding armrest.

CHAIR WITH FOLDING ARMREST

Item number: 926375 Lashing kit for fixed armrest.

DOCKING

VELA Blues 300 is also available for a docking station (Dahl). The chair must still be configured as for 4-point seat belts and the mounting kit for docking must be mounted.

Item number for docking station mounting kit 926425.

See section 2 re. mounting the lashing kit

See section 3 re. correct mounting of seat belts.

See section 4 re. mounting the base plate and lock plate for the Dahl docking station.

2. MOUNTING THE LASHING KIT

MOUNTING THE LASHING FITTING, FRONT

First, fit the block with four threaded holes in C-rail and 2 x screws are firmly tightened (11 NM) into the two middle threaded holes. Then mount the securing fitting with washers and screws (30 NM). Note that the hook label must face the rear.



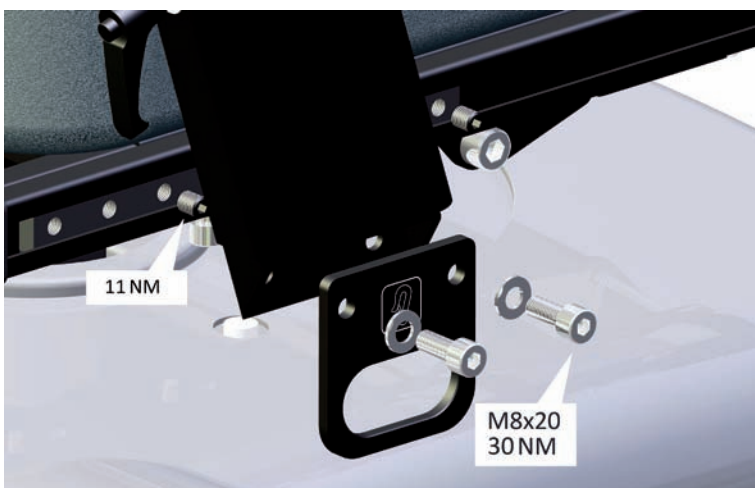
MOUNTING THE TUBULAR LEG ON C-RAILS

A tubular leg is fitted at both ends of the C-rail on both sides. The tubular leg must cover the sharp edges of the C-profile in the event of the seatbelt slipping this far back on sudden application of the brakes. The opening in the side of the tubular leg faces inwards towards the seat.



MOUNTING THE REAR SECURING FITTING, FOLDING ARMREST

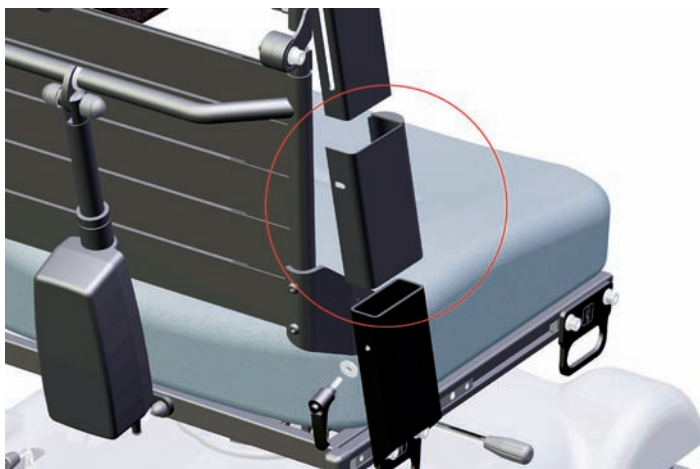
First, fit the block with 8 threaded holes into the C-rail and firmly tighten the 2 x pinol screws (11 NM), one of them into the threaded hole hidden behind the armrest and the other at own option. Then mount the lashing fitting to the two holes in the bottom of the armrest with washers and screws (30 NM).



MOUNTING THE EDGE COVERING

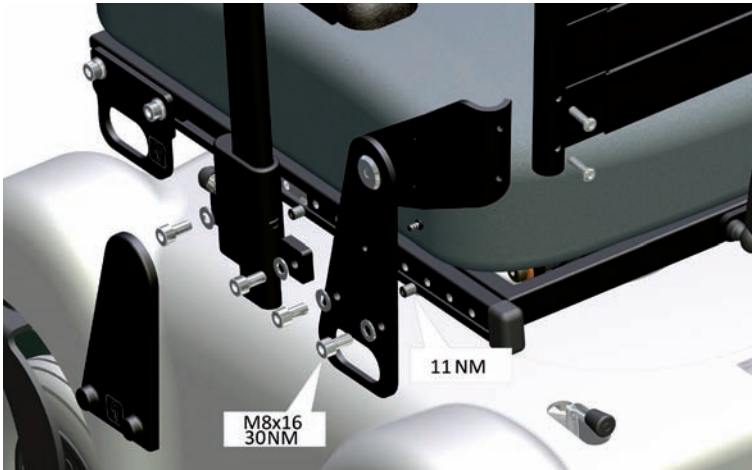
Lift the top of the armrest and push the edge covering down over the part attached to the chair and then replace the upper part.

This is done on both sides. The purpose of the edge covering is to prevent sharp edges cutting through the seatbelt in the event of sudden braking or a collision.



MOUNTING THE REAR LASHING FITTING, FIXED ARMREST

First, fit the block with 8 threaded holes into the C-rail, then firmly tighten 2 x pinol screws (11 NM), one in the threaded hole behind the armrest and the other at own option. Then mount the seat back hinge with washers and screws (30 NM). The plastic covering is attached to the fitting with a small screw from behind.



LASHING FITTING AND FIXED ARMREST - READY MOUNTED



RESIZING OF HOLE IN FITTING FOR ELECTRIC LEG SUPPORT

The hole indicated must be enlarged to Ø8 for the lashing fitting to be screwed to the chair if it has an electric leg support.



SCREWING ON THE FITTING.

First, the threaded block must be fastened into the C-rail with 2 x pinol screws (11 NM), after which the fitting is screwed on (30 NM) together with the lashing fitting, using 2 x Allen screws with low profile heads, without washers.



SCREWS IN LEG SUPPORT

An M5 thread has to be cut into the base of the leg support. To prevent the leg support falling off, a screw is fitted into the leg support from below. The screw must not be screwed so far in as to prevent the leg support being lifted and turned to the side.



The screw must jut out approx. 30 mm at the bottom.

REPLACEMENT OF SCREWS AND BOLTS

REPLACEMENT OF SCREWS IN THE SEAT BACK FRAME.

The existing tightener is replaced by the above screw and firmly tightened (30 NM).



REPLACEMENT OF BOLTS IN THE HEADREST

The existing screws are replaced with steel bolts. After adjustment to suit the user the bolts must be firmly tightened.



POSITION OF LABELS ON FITTINGS



POSITION OF SILVER LABEL ON SHIELD

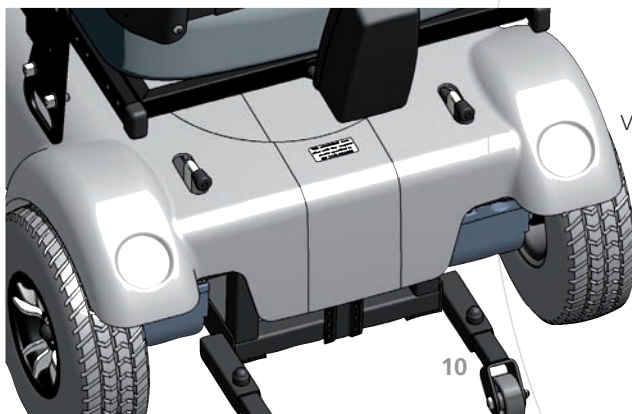
This wheelchair complies with the requirements specified in ISO 7176-19:2008



VELA Blues 100



VELA Blues 200

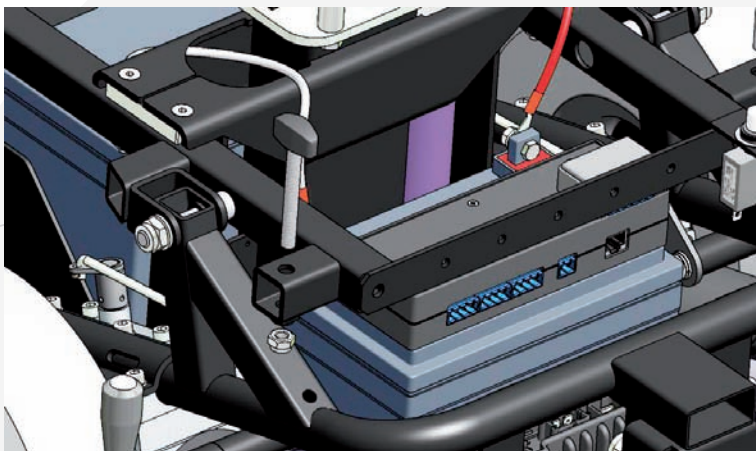


VELA Blues 300

SPECIFIC TO VELA BLUES 200

MOUNTING OF THUMBSCREWS

When the VELA Blues 200 is used as a passenger seat of the vehicle, the thumbscrews **MUST** be fully tightened to lock the flexible chassis. Screw the thumbscrews into the existing holes in the chassis with lock nuts on the end to prevent the thumbscrews falling out when loosened.



REPLACEMENT OF WHEEL FORKS

The forks on the rear wheels must be replaced with new wheel forks. The existing plastic wheel forks be replaced with forks made of aluminium.



HOLES IN SHIELD AND LOCATION OF LABELS

HOLES IN THE SHIELD FOR THUMBSCREWS

(Holes have already been drilled in new chairs, so this only applies to chairs supplied before 1 February 2010 which are to have a lashing kit added.)

Position the template so that it is flush with the edges and then drill/grind an oblong hole for the thumb screws, then repeat on the opposite side.



LOCATION OF YELLOW LABELS

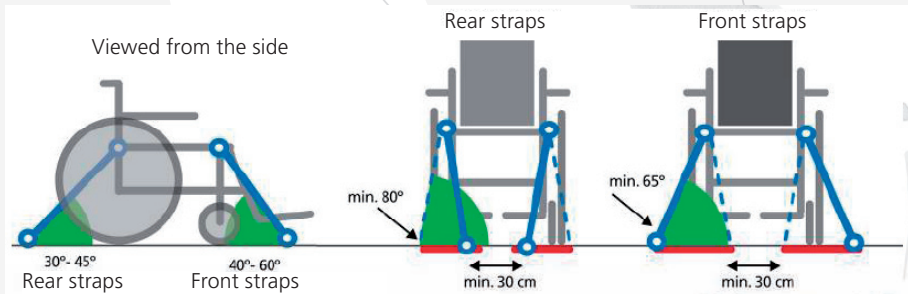
Position a yellow label on the shield on both sides next to the thumb-screw holes to draw attention to the fact that thumb screws **MUST** be screwed in fully for transport.



3. ADVICE AND GUIDANCE ABOUT LASHING DOWN AN ELECTRIC WHEEL CHAIR

When lashing down a wheelchair into a vehicle to be used as a passenger seat, certain precautions apply to ensure that the wheelchair is lashed down as safely as possible.

- The chair must be set at its lowest position.
- The seat must be moved into the horizontal position
- The seat back must be adjusted to an angle of max. 10°
- Electric wheelchairs must be switched off so that the automatic brake comes on



The picture shows the incorrect positioning of a 3-point seatbelt.

Seatbelts must not be held away from the body by parts of the wheelchair, such as armrests, wheels, etc.

CORRECT POSITIONING THE 3-POINT SEAT BELT ON THE USER

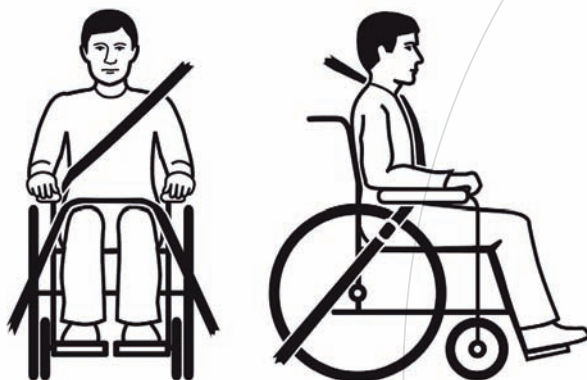
IMPORTANT:

The 3-point seat belt must not be tightened across sharp edges. The drawing shows the incorrect positioning of a 3-point seatbelt.



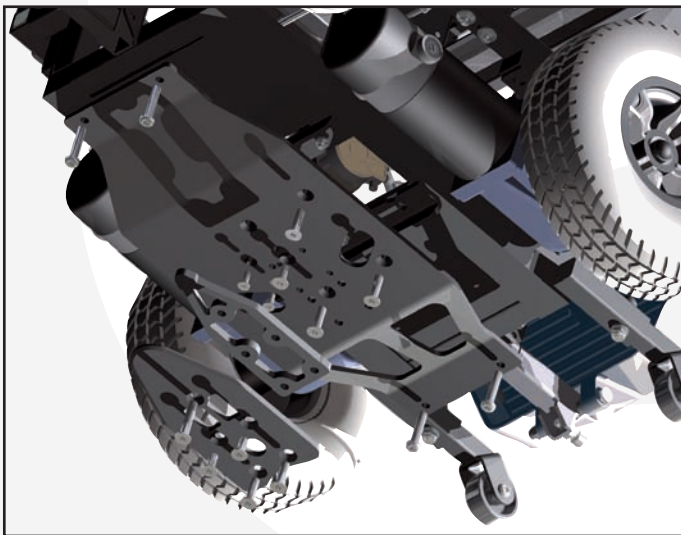
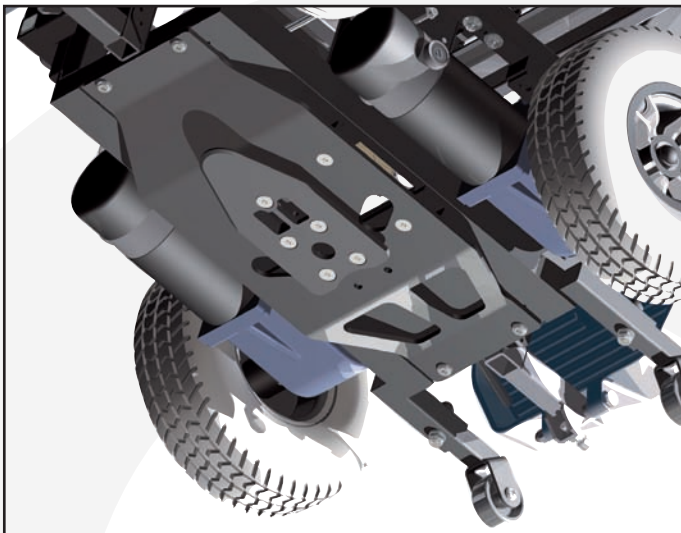
Note: Seatbelts must not be held away from the body by parts of the wheelchair, such as arm rests, wheels, etc.

THESE TWO DRAWINGS SHOW THE CORRECT POSITIONING OF A 3-POINT SEATBELT
The seatbelt must have full contact with the shoulder, chest and hips.



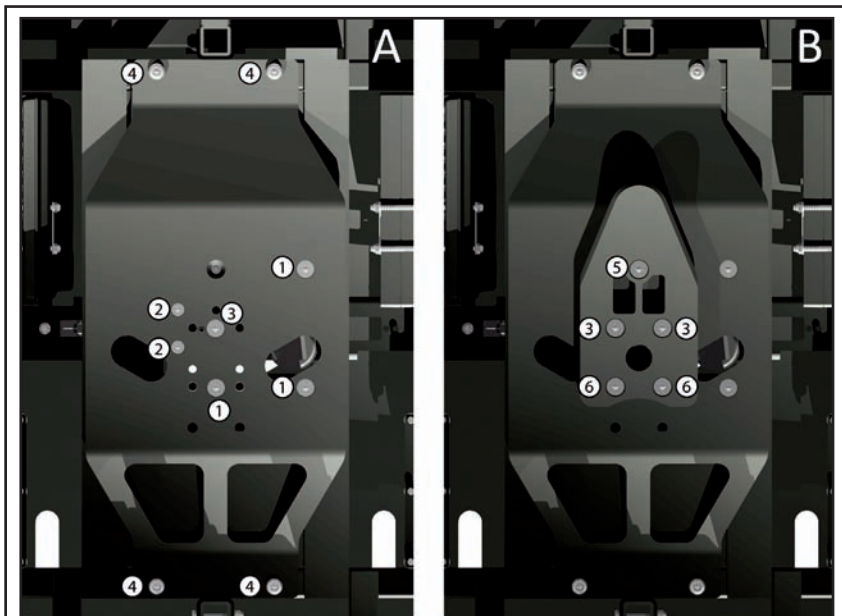
The lap belt must be positioned as close as possible to the hip joint.

4. MOUNTING THE BASE PLATE AND LOCKING PLATE FOR THE DAHL DOCKING STATION



Base plate is mounted on the chassis using 4x M8x40 button head screws fastened with M8 lock nuts.

The large apertures in the base plate must face backwards.



1. M8x30 - Mounted in locking plate 30NM. Please screw securing
2. M6x16 - Locking nut
3. M8x20 - Fig. A - Screwed into the pillar
3. M8x20 - Fig. B - Thread in plate - 30NM - please screw securing
4. M8x40 buttonhead - M8 locking nut
5. M8x45 - Mounted in locking plate - 30 NM - Please screw securing
6. M8x30 - Locking nut

Fig. 01 A/B

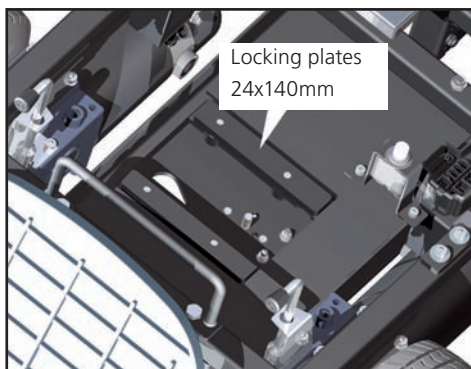


Fig. 02

Before mounting the locking plate, screws no. 1, 2 and 3 are screwed into the base plate (see fig. 1A). Screws no. 2 and no. 3 are screwed into the outer tube and the column respectively to fix them in place.

Screws no. 1 and no. 5, screw into two blocks, which fit into the chassis (see fig. 02).

